What is claimed is:

1. A cleaning system for cleaning semiconductor process equipment contaminated with a reaction product, the system comprising:

- a. a component of the semiconductor process
 equipment, the component having a component
 channel contaminated with the reaction-product;
- b. a steam source adapted to provide steam via a steam-source outlet, wherein the steam pressure is at least one atmosphere; and
- c. a cleaning fixture having a steam input connected to the steam-source outlet and a steam output adapted to interface with the component channel;
- d. wherein the steam source forces steam through the steam-source outlet, the cleaning fixture, and the component channel.
- 2. The system of claim 1, wherein the reaction product includes aluminum and a halogen.
- 3. The system of claim 1, wherein the component is a gas-diffusion plate.
- 4. The system of claim 1, wherein the steam pressure is greater than 1000 psig.
- 5. The system of claim 1, wherein the steam temperature is above 250 degrees Fahrenheit.
- 6. The system of claim 1, further comprising a bath of

liquid, wherein at least a portion of the component is immersed in the liquid.

- 7. The system of claim 6, wherein the liquid is deionized water.
- 8. The system of claim 6, wherein the liquid comprises water and hydrogen peroxide.
- 9. The system of claim 6, wherein the component channel has a channel input adapted to receive the steam and a channel output adapted to expel the steam, and wherein the channel output is immersed in the liquid.
- 10. The system of claim 1, wherein the steam comprises an oxidizing agent.
- 11. The system of claim 11, wherein the agent includes hydrogen.
- 12. The system of claim 1, wherein the steam includes a reducing agent.
- 13. A cleaning system for removing a contaminant compound of a halogen and aluminum from semiconductor process equipment, the system comprising:
 - a. a steam source adapted to provide steam via a steam-source outlet, wherein the steam pressure is at least one atmosphere; and
 - b. a steam fixture connected to the steam-source outlet and adapted to direct the steam at the

contaminant compound.

14. The system of claim 13, wherein the steam pressure is above 1000 psig.

- 15. The system of claim 13, wherein the steam temperature is above 212 degrees Fahrenheit.
- 16. The system of claim 13, wherein the semiconductor process equipment includes a component having a component channel contaminated with the contaminant compound, wherein the steam fixtures is adapted to direct steam from the steam-source outlet through the component channel.
- 17. The system of claim 16, further comprising a gasket arranged between the fixture and the component.
- 18. The system of claim 13, wherein the steam comprises at least one of an oxidizing agent and a reducing agent.
- 19. A method for removing reaction products from semiconductor process equipment, the method comprising forcing steam through holes in the semiconductor process equipment.
- 20. The method of claim 19, wherein the reaction product includes aluminum and a halogen.
- 21. The method of claim 20, wherein the halogen is fluorine.

22. The method of claim 19, wherein the steam pressure is above one atmosphere.

- 23. The method of claim 19, wherein the steam temperature is above 212 degrees Fahrenheit.
- 24. The method of claim 19, wherein the equipment comprises a gas diffusion plate perforated with the holes.
- 25. The method of claim 19, further comprising soaking the equipment prior to forcing the steam through the holes.
- 26. The method of claim 25, wherein equipment is soaked in water.
- 27. The method of claim 26, wherein the water is above 180 degrees Fahrenheit.
- 28. The method of claim 25, wherein the water equipment is soaked at a pressure greater than one atmosphere.
- 29. The semiconductor process equipment of claim 19 cleaned using the method for removing reaction products.
- 30. A cleaning system for cleaning semiconductor process equipment contaminated with a reaction product, the system comprising:

a. a component of the semiconductor process equipment, the component having a component channel contaminated with the reaction-product;

- b. a steam source adapted to provide steam via a steam-source outlet, wherein the steam pressure is at least one atmosphere; and
- c. means for forcing the steam from the steam-source outlet through the component channel.
- 31. The system of claim 30, wherein the reaction product comprises aluminum and a halogen.
- 32. The system of claim 30, further comprising a water bath, wherein at least a portion of the component is immersed in the water.
- 33. The system of claim 30, wherein the reaction product includes a halogen.